

Brazil Macro | July 2022

INFLATION

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Forecasting accountability



Forecast accountability: short-term inflation lower, medium-term higher

- Tax cuts reducing inflation for fuels, electrical energy and communication
- But the income-effect generated by the tax cut, alongside new round of income aid measures generate a support for demand, putting upward pressure in other sectors and compensating part of the direct downward effect
- Moreover, for 2023 part of the tax cuts will be reversed

		2022	
	old	new	Δ bps
IPCA	9.5	7.9	-160
Free prices	9.5	10.5	72
Food-at-home	13.1	15.0	30
Industrial goods	9.6	10.5	22
Tradables	9.9	10.8	18
Non-Tradables	7.3	8.4	3
Services	7.9	8.5	20
Food-service	8.2	9.2	6
Airline tickets	27.0	53.5	14
Economic activity	9.2	6.7	-24
Education	6.9	7.4	3
Inertial	6.8	8.5	13
Salaries	6.0	7.5	8
Administered prices	9.6	0.9	-231
Gasoline	9.6	-6.5	-110
Energy	1.3	-20.4	-91
Health insurance	7.9	6.9	-3
Bus fares	4.3	3.7	-1
Cores	9.2	9.2	4

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Sources.	San	tand	\circ r

		2023	
	old	new	∆ bps
IPCA	4.5	5.7	114
Free prices	4.0	5.0	72
Food-at-home	3.5	3.5	О
Industrial goods	4.1	4.1	-1
Tradables	4.5	4.5	О
Non-Tradables	1.0	1.0	O
Services	6.3	6.3	-1
Food-service	6.5	6.5	О
Airline tickets	5.0	5.0	О
Economic activity	6.0	6.0	O
Education	8.0	8.0	O
Inertial	6.0	6.0	O
Salaries	5.5	5.5	O
Administered prices	6.0	7.6	43
Gasoline	-5.0	5.0	68
Energy	12.0	14.0	8
Health insurance	12.0	14.0	7
Bus fares	12.0	14.0	3
Cores	5.0	6.5	150

Sources: Santander



Detailing the fiscal measures impacts

2022		2023	
Items (measures)	Impact (bps)	Items (measures)	Impact (bps)
Gasoline (ICMS)	-61	Gasoline (Pis/Cofins)	49
Gasoline (Pis/Cofins)	-49	Higher expectations (fiscal stimulus)	30
Electricity (ICMS)	-42	Lower inertia	-40
Electricity (TUSD/TUST)	0		
Electricity ("tax credit")	-20		
Telecom (ICMS)	-22		
Income-effect (fiscal stimulus)	33		
IPCA 2022 (prev. 9.5)	7.9	IPCA 2023 (prev. 5.3)	5.7

Sources: Santander

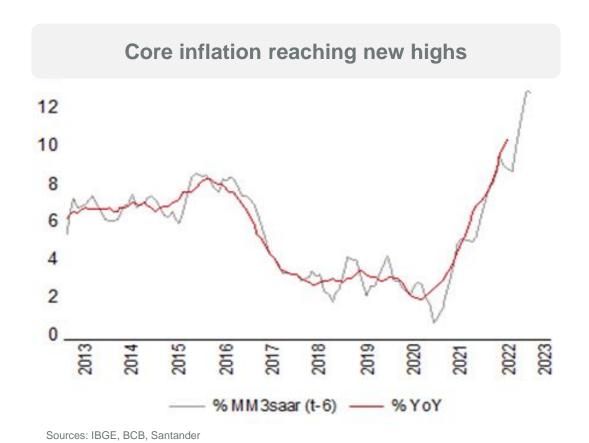


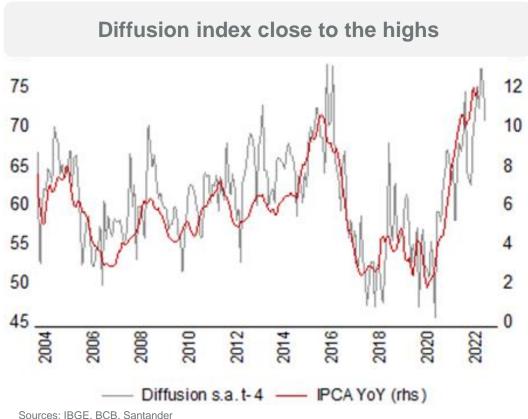
Picture: inflation still in bad shape



Inflation: still in bad shape

- Although core gauges apparently stopped accelerating and the diffusion index saw a small relief at the margin, both remain at very high levels
- The average of the main core measures is still running around 13% 3MMA-saar and diffusion is still at 71%

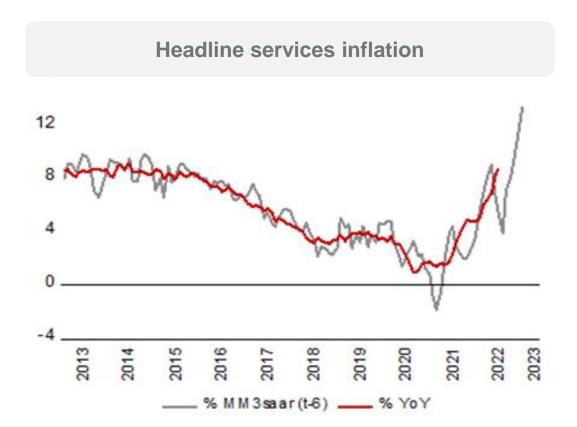


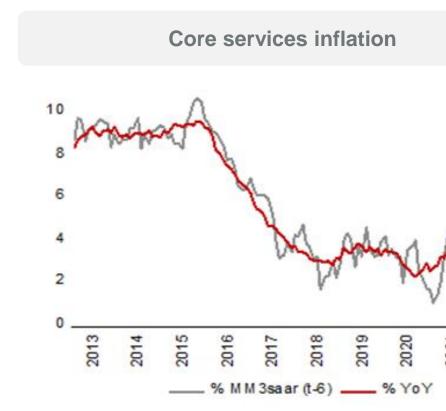




Services inflation is picking up sharply

o Both headline and core services are running above 2015-2016 levels and still accelerating at the margin





Sources: IBGE, BCB, Santander

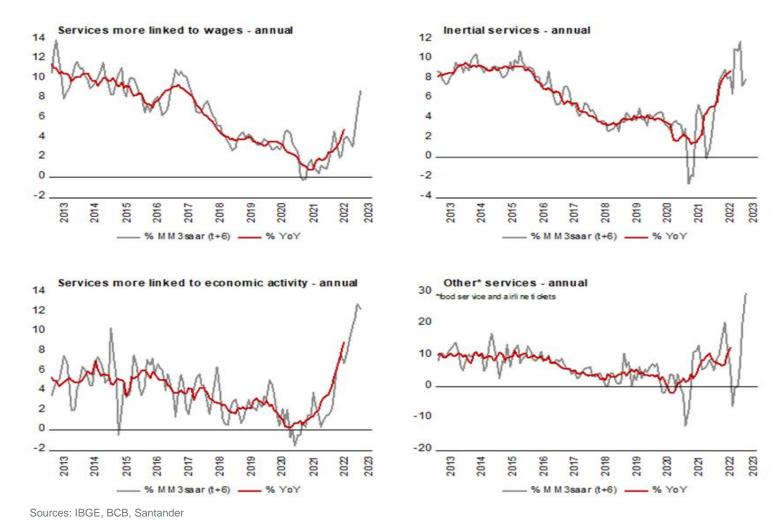




2022

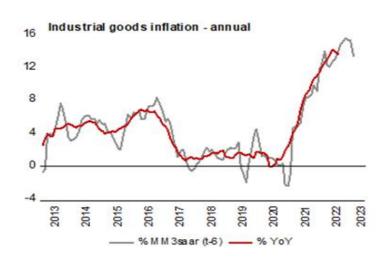
Inflation is broadly spread in the services sector

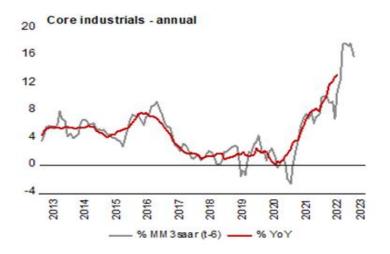
We are seeing both services linked to economic activity, to the job market (wages), the more inertial ones (indexed to past inflation)
and even the volatile services accelerating at the margin

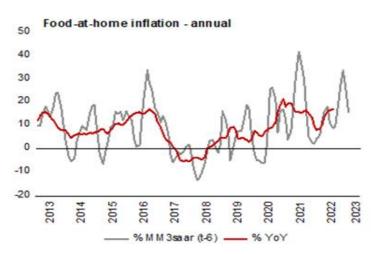


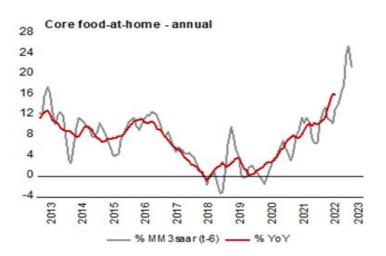


Industrials and food inflation: first signs of relief, but still high







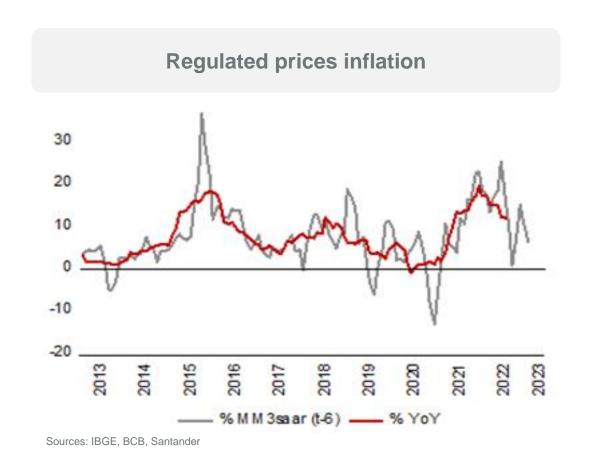


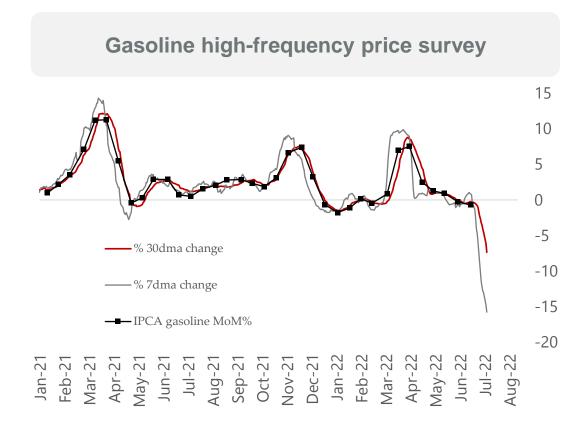
Sources: IBGE, BCB, Santander



The positive highlight is regulated prices

o Regulated prices are seeing a considerable relief because of the tax cut in fuels, electrical energy and telecom





Sources: IBGE, Santander

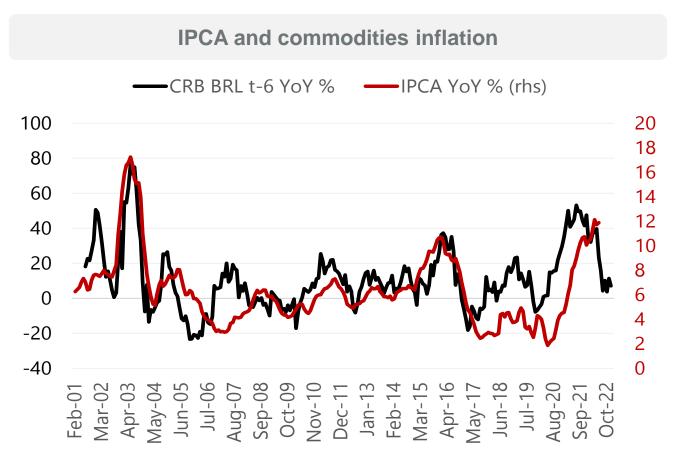


Looking ahead: challenging outlook, but the worst seems behind us now



What to expect from now on? A relief from "imported inflation"

Even with USDBRL coming back to above 5, commodities' prices in BRL terms still point to a disinflation ahead

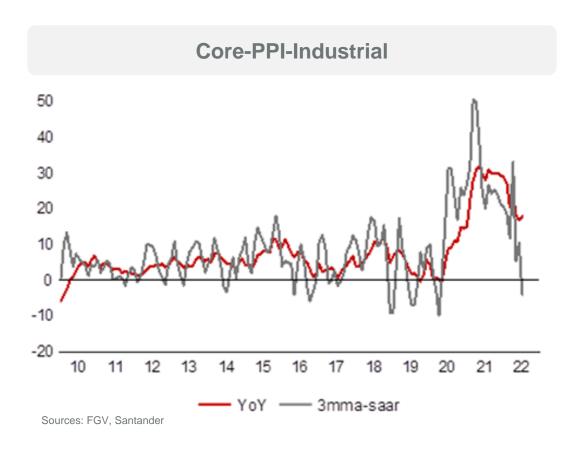


Sources: IBGE, Bloomberg, Santander



Some preliminary signs of lower pressure on the industrial side

- o Industrial goods at the wholesale/producer level are already decelerating, which should reach the consumer level soon
- o Anecdotal evidences that at least part of the supply shocks are fading: freight costs, for example

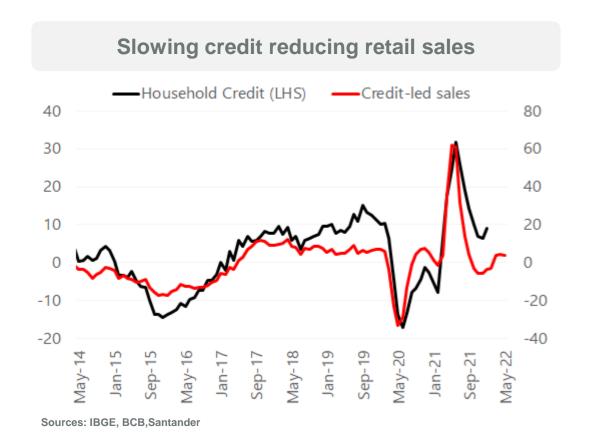


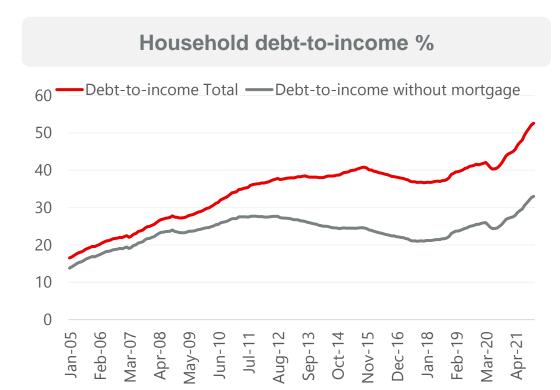




What to expect from now on? Less pressure on the demand side

- For households, new loans are slowing down and debt is at the highest levels (and still rising)
- At some point, this should help to reduce inflation

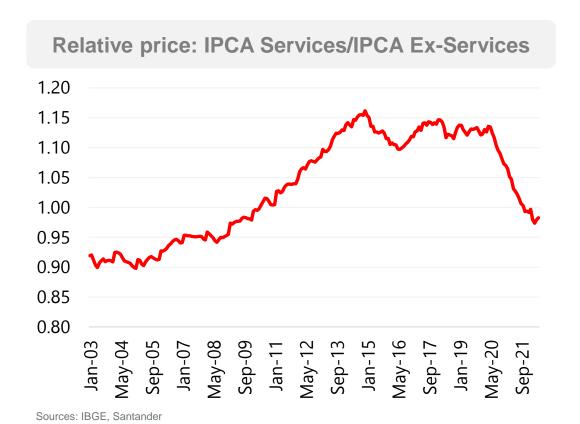


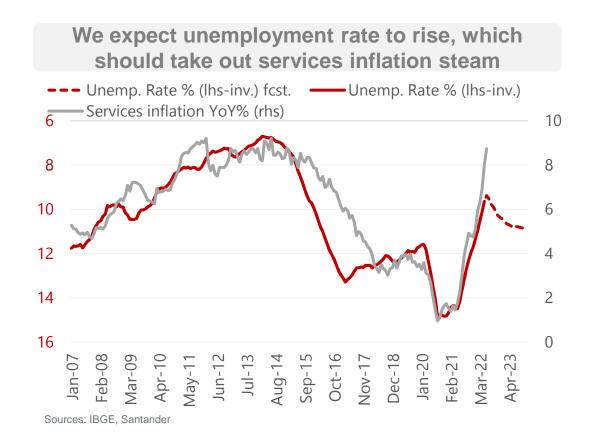


Sources: BCB, Santander

Services: a relative-price adjustment, but then a cool down on the back of rising unemployment

- Services are now benefiting from the end of social distancing measures and enjoying a relative-price adjustment (after lagging all the shocks in other sectors)
- Looking ahead, we expect the economy to cool down (monetary policy acting), rising unemployment and helping services inflation to cool down



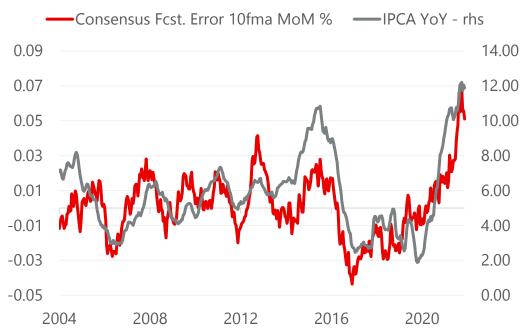




Inflation expectations: the end of short-term surprises?

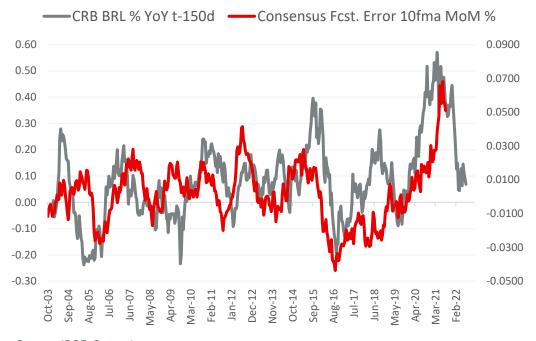
- Montlhy inflation surprises are highly correlated to the state of inflation: if inflation is accelerating, upward surprises follow. As IPCA
 has peaked, inflation surprises should start to reduce
- Moreover, usually inflation surprises are driven by volatile prices, particularly commodities and the exchance rate, and those two
 prices are pointing to a reduction of inflation surprises

Inflation surprises are highly correlated to the state of inflation



Sources: IBGE, Santander

CRB in BRL is pointing to a deceleration of inflation surprises



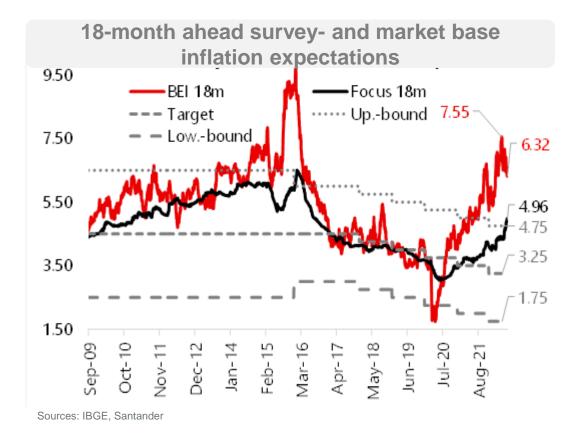
Sources: IBGE, Santander



Inflation expectations: a relief in medium-term expectations?

- 12-month expectations started to fall after the announcement of the tax cuts
- For 18-month ahead (the BCB horizon), the period which also captures the come back of part of the taxes, the signals are still mixed (break-even inflation falling, but Focus survey still rising), but there also signs of some preliminary relief
- o If inflation surprises start to reduce it could consolidate the relief in the upward adjustments of medium-term expectations (services inflation/short-term strong demand and a possible change of view regarding the fiscal consolidation are risks for this outlook)

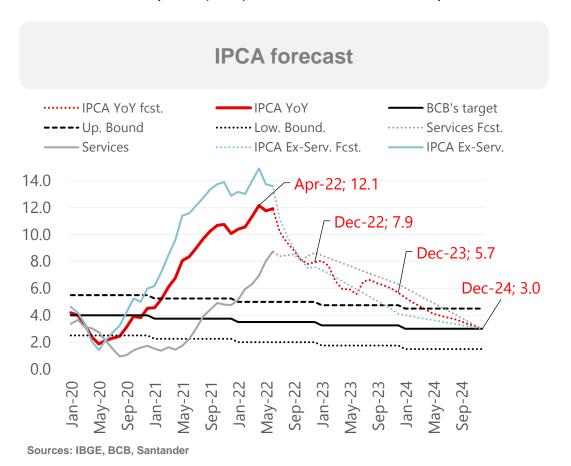




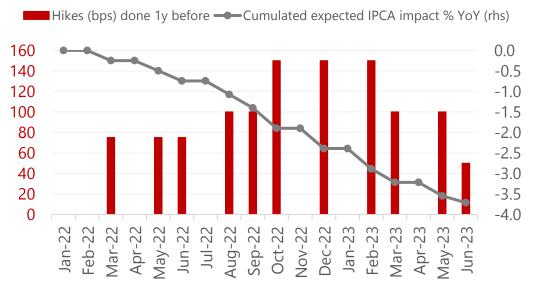


Inflation outlook remains challenging, but it could be stopping getting worse

- We believe the bulk of the monetary policy tightening is about to kick-in more intensely: so far, just 225-bps of Selic hikes have reached the economy; 500-bps are yet to come until 2022 year-end and at least more 350-bps in 1H23
- The inflation peak (YoY) should have been in April 2022



Monetary policy lag: date of expected impact of each Selic hike done so far and likely effect on IPCA



^{*}BCB's models consider 4 to 6 quarters of monetary policy lag, here we use 4 quarters (12 months).

Sources: BCB, Santander



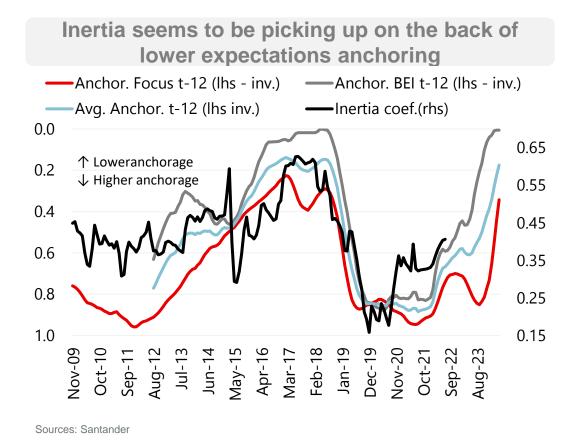
^{**}Impact on IPCA estimated just by cumulating the BCB's model rule-of-thumb of +100 bps Selic = -33 bps IPCA YoY.

Main Risks: inertia and fiscal outlook



With expectations detached from the target, inertia gains steam

- The unanchoring of inflation expectations makes the price-setting process more based on past inflation, rising inertia
- We see inertia is picking up with the rise of domestic risk, making inflation stickier and turning it in a more self-fulfilling process

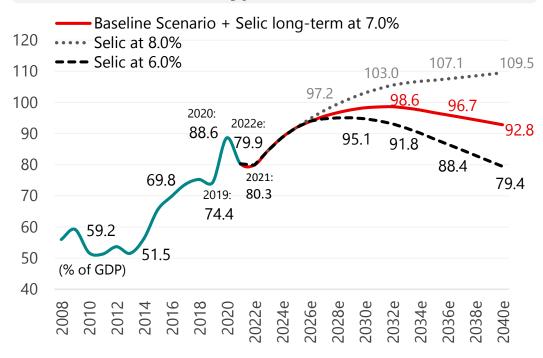




Uncertainty regarding fiscal outlook

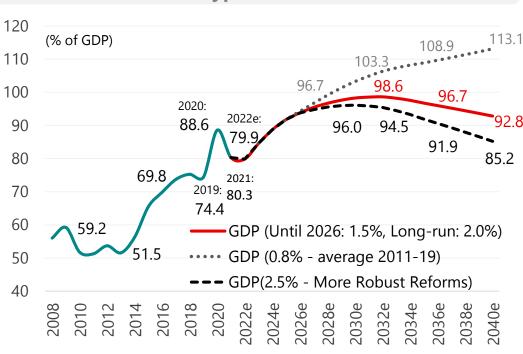
- Small changes in estimates for potential output and/or neutral interest rates leads to challenging outlooks for the debt-to-GDP ratio
- With uncertainties regarding the fiscal outlook, inflation expectations could remain detached from the target

Government Debt – Simulations for Selic Rate Hypotheses



between IPCA and GDP deflator)

Government Debt– Simulating for Trend GDP Hypotheses



Sources: BCB, Santander.

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Notes: Debt issuances: we added a spread of + 1.0 pp in addition to the Selic rate in the models.

PEC Emergencial: Funds (+BRL150 billion for liquidity cushion in 2021 + BRL30 billion in 2022)

2022 GDP Deflator: 10% | GDP: 1.9% | Selic Rate: 14.25%

2023-40: GDP deflator: 3.9%, which is Inflation target + 0.9% (close to the average difference of the last decade



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